



U.S. Soldier from Bravo Company, 5/20 Infantry, 2nd ID provides supporting fire during a squad live fire exercise in Kirkush Military Training Base, Diyala province, Iraq. U.S. Army photo by Petty Officer 2nd Class Green

The purpose of this newsletter is to provide the small business community, Army, DoD and other government researchers and leadership additional insight into the Army SBIR program.

Army SBIR Vision

To be the Army's premier source of innovative technology solutions, providing direct access to America's high-tech small business research & development community, enabling our Soldiers deployed around the world.

Army SBIR Helpdesk

The Army SBIR Helpdesk provides answers to program questions and assistance to small businesses and Government participants. It is operated Monday through Friday from 8 am to 5 pm (except on Federal holidays). You may reach the help desk by email at army.sbir@us.army.mil or by calling (703) 806-2085.

A Message from the Army SBIR Program Manager *Commercialization Excellence Awards*

The Commercialization Excellence Award is a new initiative I have begun that recognizes exceptional Army SBIR companies that exemplify the vision of the Army SBIR Program – to be the Army's premier source of innovative technology solutions enabling our Soldiers deployed around the world. To qualify, small businesses must develop technologies that have transitioned to directly support our Soldiers and realize over \$50M in Phase III funding for their SBIR developed technologies. Businesses selected for award will be recognized at a national SBIR conference, presented a plaque, and will be given the opportunity to speak to the audience about their success. To date, two small businesses have received a Commercialization Excellence Award: FIRST RF Corporation and M Cubed Technologies, Inc.



FIRST RF Corporation, \$200M in Phase III for its small multi-decade communications & electronic warfare antenna for high speed, high power electronics.



M Cubed Technologies, Inc., \$70M in Phase III for its durable low cost, low weight and high performance ceramic composite.

If you would like more information on the Commercialization Excellence Awards, or would like to submit your information for possible award, please contact the SBIR office via e-mail at: army.sbir@us.army.mil

Army SBIR Program Coordinator Receives Award

Suzanne Weeks, SBIR Program Coordinator for the U.S. Army's Communications-Electronics Research, Development, and Engineering Center (CERDEC), was awarded the Army Materiel Command (AMC) SBIR Program Coordinator of the Year for fiscal year 2009. The award recognized Ms. Weeks for exceptional performance in working with small businesses in the SBIR Program. Ms.

Weeks received the award from LTG James H. Pillsbury, USA, Deputy Commanding General, Army Materiel Command (AMC) and Ms. Nancy Small, Director, Small Business Programs, AMC, at the Army Materiel Command Small Business Conference in McLean, Va. Nov. 18, 2010.





Paratroopers of the 82nd Airborne Division descend to Sicily drop zone
Army photo by Sgt. Michael J. MacLeod

11.1 SOLICITATION

Solicitation Opens Dec 13, 2010

Solicitation Closes: Jan 12, 2011
Phase I proposals due

OUTREACH EVENTS

2011 SBIR Spring Apr 11-13,
National Conference Madison, WI

www.wisconsinsbir.org

2011 SBIR Beyond Sep 12-15
Phase II Conference Atlanta, GA

www.beyondphaseii.com

2011 Defense Nov 28- Dec
Manufacturing 1
Conference Anaheim, CA

www.dmc2011.com

Have a Success Story?

We are continually seeking new "success stories" from small businesses, much like the one you see featured in this newsletter. Successful small businesses and their technology are highlighted in our yearly Commercialization Brochure, website, and quarterly newsletter. If you are interested in submitting a story, please contact the SBIR Program Management Office at army.sbir@us.army.mil.

Featured Army SBIR Success Story

Safety Dynamics

www.safetynamics.net

U.S. Army Research Laboratory

SENTRI™— Personnel Detection and Warning System

The Army has the need for smart sensors that can increase situational awareness and improve the rate of time-sensitive targeting of incoming threats and threat identification. Safety Dynamics developed a hardware platform and localization system that uses multiple algorithms, including a biologically-based neural network with the potential to recognize the sound of gunshots from multiple calibers in noisy environments.

Sensor Enabled Neural Threat Recognition and Identification (SENTRI) does not require line-of-sight to the shooter, can detect discharges from subsonic small-arms fire, and eliminates false positives generated by other pulsatile sounds like vehicle backfires and fireworks. Further, the system performs recognition functions in less than one second, alerts the user, and sends camera control commands to a connected Pan, Tilt, Zoom video camera transferring it to the origin of the shot for instant threat identification.

SENTRI has benefits for both the military and commercial sector. Soldiers equipped with this technology will receive an early warning signal as well as information on the general direction of threats, whether they are from enemy personnel, explosives, or sniper fire. Commercially, in every occasion where dogs are used for search and rescue or where video monitoring is not allowed (e.g., public restrooms, changing rooms), SENTRI can be a deterrent for would-be terrorists and criminals. The Los Angeles Sheriff's Department added SENTRI to its Advanced Surveillance and Detection Program to detect crimes as they happen and collect video evidence for use in legal proceedings and also to meet Homeland Security surveillance needs.

Phase III Impacts

To date, Safety Dynamics has received over \$4M in private investments for its SENTRI technology.



For more information on Army SBIR Success Stories, visit our website:
www.armysbir.army.mil/commercialization